PATENT ABSTRACTS OF JAPAN

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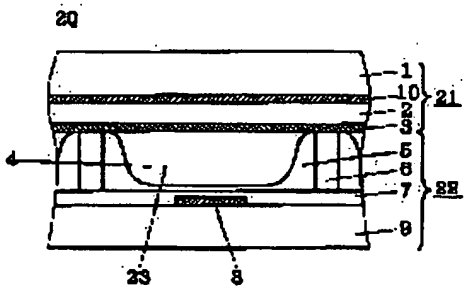
(54) AC PLASMA DISPLAY PANEL, SUBSTRATE FOR IT AND PROTECTIVE FILM MATERIAL FOR IT

(57)Abstract:
PROBLEM TO BE SOLVED: To enhance a secondary electron discharging rate of a protective film on an AC (alternate current) PDP(plasma display panel), and to suppress and eliminate flicker and failed discharge lighting.
SOLUTION: In this substrate for an AC PDP, an X-electrode 10 and a Y- electrode in parallel each other are extendedly formed on the surface of a glass substrate 1, a dielectric layer 2 to entirely cover the surface of these electrodes and the glass substrate 1 is formed, and a protective film 3 to entirely cover the surface of the dielectric layer 2 is formed. The protective film 3 is formed by using a pellet formed by baking it for 30 minutes at 1400° C in the atmosphere as a vapor deposition source in an electron beam vapor deposition method after powder of basic magnesium carbonate penta-hydrate and powder of iron oxide are mixed at a designated rate and pressurized for molding in a die. The protective film 3 is heated at 350° C-500° C in a vacuum or a reductive atmosphere after it is formed. The protective film 3 comprises solution of magnesium oxide and iron oxide, and concentration of the iron oxide is 0.1 mol.% to 20 mol.%.



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